

WHAT IS CLAIMED IS:

1. A computer implemented method of automatically storing and transmitting data in a network in an universal format, the method comprising the steps of:
receiving a document in a first format;
parsing said received document in said first format into constituent node sets;
and
semantically-tagging, indexing and storing each node set of said received document in a data store.
2. The method according to claim 1, further comprising:
retrieving said each node set of said received document; and
reassembling required node sets of said received document into a second format.
3. The method according to claim 1, wherein said node sets comprise information couplets.
4. The method according to claim 1, wherein said node sets are stored in a data store.
5. The method according to claim 1, wherein said node sets are stored in a format that can be translated to substantially any other format.
6. The method according to claim 4, wherein said stored node sets are stored in a format corresponding to a format of said data store.
7. The method according to claim 1, further comprising triggering a propagation of a predetermined event to an endpoint of said network by the storing of a node set in said data store.

8. The method according to claim 7, wherein an endpoint in said network registers with said network for notification of said propagation of said predetermined event in said network.

9. The method according to claim 1, further comprising:

receiving a second document;

parsing said received second document into constituent node sets;

indexing said each node set of said received second document;

storing said each node set of said received second document in said data

store; and

updating at least one of said node sets of said document previously stored in said data store which corresponds to one of said node sets of said received second document.

10. The method according to claim 9, further comprising triggering a propagation of an event to an endpoint of said network by the storing of at least one of said node sets of said second document and updating at least one of said node sets of said document previously stored in said data store.

11. The method according to claim 8, wherein said endpoint retrieves said node sets stored in said data store upon said notification of said predetermined event.

12. The method according to claim 1, further comprising:

receiving a second document;

parsing said received second document into constituent node sets;

indexing said each node set of said received second document;

storing said each node set of said received second document in said data

store; and

appending at least one of said node sets of said received second document to said document previously stored in said data store.

13. The method according to claim 12, further comprising triggering a propagation of an event to an endpoint of said network by the storing or appending of at least one of said node sets of said second document stored in said data store.

14. A system for automatically storing and transmitting data in a network in an universal form, the system comprising:

a data translator that receives a document in a first format, said data translator comprising:

a parser that parses said received document into constituent node sets;

and

a semantic tagging unit that semantically tags each said constituent node set;

an indexer that indexes said each node set; and

a data store that stores each said indexed node set.

15. The system according to claim 14, wherein said data translator retrieves each said indexed and stored node set and assembles said each node set into a second format.

16. The system according to claim 14, wherein said node sets are stored as information couplets.

17. The system according to claim 14, wherein said node sets are stored in a data store.

18. The system according to claim 14, wherein said stored node sets are stored in a format that can be translated to substantially any other format.

19. The system according to claim 17, wherein said stored node sets are stored in a format corresponding to a format of said data store.

20. A computer program product having program code that is executable by a computer for storing and transmitting data in a network in an universal form, the program code configured to cause the computer to perform the following steps:

receiving a document in a first format;

parsing said received document in said first format into constituent node sets;

and

semantically-tagging, indexing and storing said each node set of said received document in a data store.

21. The program product according to claim 20, wherein the program code is configured to cause the computer to further perform the following step:

retrieving said each node set of said received document.

22. The program product according to claim 20, wherein the program code is configured to cause the computer to further perform the following steps:

retrieving said each node set of said received document; and

reassembling said each node set into a second format.

23. The program product according to claim 20, wherein said node sets are stored as information couplets.

24. The program product according to claim 20, wherein said node sets are stored in a data store.

25. The program product according to claim 20, wherein said stored node sets are stored in a format that can be translated to substantially any other format.

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26. The program product according to claim 20, wherein said stored node sets are stored in a format corresponding to a format of said data store.

27. The method according to claim 20, further comprising triggering a propagation of a predetermined event to an endpoint of said network by the storing of a node set in said data store.

28. The method according to claim 27, wherein an endpoint in said network registers with said network for notification of said propagation of said predetermined event in said network.

29. The program product according to claim 20, further comprising:
receiving a second document;
parsing said received second document into constituent node sets;
indexing said each node set of said received second document;
storing said each node set of said received second document in said data store; and
updating at least one of said node sets of said document previously stored in said data store which corresponds to one of said node sets of said received second document.

30. The method according to claim 29, further comprising triggering a propagation of an event to an endpoint of said network by the storing of at least one of said node sets of said second document and updating at least one of said node sets of said document previously stored in said data store.

31. The method according to claim 28, wherein said endpoint retrieves said node sets stored in data store upon said notification of said predetermined event.

32. The program product according to claim 20, further comprising:

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receiving a second document;
parsing said received second document into constituent node sets;
indexing said each node set of said received second document;
storing said each node set of said received second document in said data

store; and

appending at least one of said node sets of said received second document to
said document previously stored in said data store.

33. The method according to claim 32, further comprising triggering a
propagation of an event to an endpoint of said network by the storing or appending of at
least one of said node sets of said second document stored in said data store.

34. A computer implemented method of automatically storing and
transmitting data in a network in an universal form comprising the steps of:

receiving a document in a first format;
parsing, semantically-tagging, storing, and indexing node sets of said
received document in said first format; and
reassembling said each node set into a second format.

35. A system for automatically storing and transmitting data in a network in
an universal form, the system comprising:

means for a receiving a document in a first format;
means for parsing said received document into constituent node sets;
means for semantically-tagging each said node set;
means for indexing said each node set; and
means for storing said each indexed node set.

36. A system according to claim 35, further comprising:

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means for retrieving said each indexed and stored node set; and

means for assembling said each node set into a second format.

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